

(FILE 'HOME' ENTERED AT 12:30:53 ON 11 JAN 2004)

FILE 'CAPLUS, USPATFULL' ENTERED AT 12:31:12 ON 11 JAN 2004

L1 434318 S SURFACTANT OR EMULSIFIER OR EMULSIFY? AGENT OR EMULSIFY?  
COMP  
L2 217356 S IODINE OR HYDROIODIC OR HYDRO IODIC OR HYDROGEN IODIDE  
L3 233430 S PROPIONIC OR PROPIONATE OR BUTYRATE OR ?VALERATE  
L4 796946 S AMMONIUM OR AMMONIA  
L5 323878 S ACIDIFIER OR CITRIC OR LACTIC OR SORBIC OR MALIC OR FUMARIC  
L6 6071 S L1 AND L2 AND L3 AND L4 AND L5  
L7 2881250 S CONSIST? OF  
L8 5268 S L6 AND L7  
L9 11 S L1 (P) L2 (P) L3 (P) L4 (P) L5  
L10 2563193 S ANIMAL OR FEED OR FOOD  
L11 9 S L9 AND L10

L9 ANSWER 9 OF 11 USPATFULL on STN

ACCESSION NUMBER: 95:96800 USPATFULL

TITLE: Antimicrobial composition and methods of use

INVENTOR(S): Talwalker, Ramesh T., Lexington, KY, United States

Barve, Shirish S., Lexington, KY, United States

PATENT ASSIGNEE(S): Arda Technologies, Lexington, KY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5462714		19951031
APPLICATION INFO.:	US 1994-210523		19940318 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1992-949432, filed on 22 Sep 1992		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Warden, Robert J.		
ASSISTANT EXAMINER:	Thornton, Krisanne M.		
LEGAL REPRESENTATIVE:	King and Schickli		
NUMBER OF CLAIMS:	17		
EXEMPLARY CLAIM:	1		
LINE COUNT:	709		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A substantially noncorrosive antimicrobial composition includes by weight percent between 0.25 to 2.0% available iodine, 20.0 to 50.0% fatty acid, 15.0%-35% non-ionic surfactant, 5.0-16.0% (w/v) buffering agent and 10.0-60.0% water (v/v). The composition has a pH between 3.0 and 5.0. Methods for using the composition are also disclosed.

SUMM A particularly effective formulation of the present composition includes

by weight percent substantially 1.7% available **iodine**, 25.0% **propionic** acid, 25.0% **lactic** acid, 21.6% non-ionic **surfactant** (i.e. 15.0% polyoxyethylene sorbitan monolaurate and 6.6% octylphenol ethylene oxide) and 15.54 gm **ammonium** acetate. Water may be added to this composition to provide a desired strength of antimicrobial activity for any particular application.

L11 ANSWER 7 OF 9 USPATFULL on STN

ACCESSION NUMBER: 95:96800 USPATFULL  
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Barve, Shirish S., Lexington, KY, United States  
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SUMM These and other antimicrobial agents are used in one form or another in hospitals, eating and drinking establishments, dairies, food processing plants and homes among other places to kill various microorganisms including bacteria, fungi, viruses and protozoans. Particularly, these antimicrobial.

SUMM A particularly effective formulation of the present composition includes

by weight percent substantially 1.7% available iodine, 25.0% propionic acid, 25.0% lactic acid, 21.6% non-ionic surfactant (i.e. 15.0% polyoxyethylene sorbitan monolaurate and 6.6% octylphenol ethylene oxide) and 15.54 gm ammonium acetate. Water may be added to this composition to provide a desired strength of antimicrobial activity for any particular application.

L9 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:964920 CAPLUS

DOCUMENT NUMBER: 124:66590

TITLE: Antimicrobial compositions containing iodine and fatty

acids and surfactants

INVENTOR(S): Talwalker, Ramesh T.; Barve, Shirish S.

PATENT ASSIGNEE(S): Arda Technologies, USA

SOURCE: U.S., 8 pp. Cont.-in-part of U.S. Ser. No. 949,432.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5462714	A	19951031	US 1994-210523	19940318
AT 155648	E	19970815	AT 1993-922304	19930921

PRIORITY APPLN. INFO.: US 1992-949432 A2 19920922

AB A substantially noncorrosive antimicrobial compn. contains between 0.25-2.0% available **iodine**, 20.0-50.0% fatty acid, 15.0%-35% non-ionic **surfactant**, 5.0-16.0% (w/v) buffering agent and 10.0-60.0% water (vol./vol.). The compn. has a pH between 3.0 and 5.0. In a stainless steel mixing vessel, 6.3 mL Bio Surf I-20 (providing 1.7% titrable **iodine**) was blended into a mixt. of 25.0mL **propionic** acid and 25.4 g of **lactic** acid at 25.degree. until dissolved. Next, 15.0 mL of polyoxyethylene sorbitan monolaurate, 6.6 mL of octylphenol ethylene oxide and 15.5 g of **ammonium** acetate was dissolved to a final vol. of 21.0 mL in water mixed together in a sep. vessel. This mixt. was then slowly added to the stabilized **iodine**-fatty acid mixt. by const. stirring at 25.degree. to obtain the antimicrobial compn. The antimicrobial activity of the compn. was tested against gram-neg. bacterial cultures.

AB A substantially noncorrosive antimicrobial compn. contains between 0.25-2.0% available **iodine**, 20.0-50.0% fatty acid, 15.0%-35% non-ionic **surfactant**, 5.0-16.0% (w/v) buffering agent and 10.0-60.0% water (vol./vol.). The compn. has a pH between 3.0 and 5.0. In a stainless steel mixing vessel, 6.3 mL Bio Surf I-20 (providing 1.7% titrable **iodine**) was blended into a mixt. of 25.0mL **propionic** acid and 25.4 g of **lactic** acid at 25.degree. until dissolved. Next, 15.0 mL of polyoxyethylene sorbitan monolaurate, 6.6 mL of octylphenol ethylene oxide and 15.5 g of **ammonium** acetate was dissolved to a final vol. of 21.0 mL in water mixed together in a sep. vessel. This mixt. was then slowly added to the stabilized **iodine**-fatty acid mixt. by const. stirring at 25.degree. to obtain the antimicrobial compn. The antimicrobial activity of the compn. was tested against gram-neg. bacterial cultures.